

Inventor: NASLI-BAKIR ET AL
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Examiner: Cain
Group Art Unit: 1714

B' 26. (New) An adhesive system according to claim 1, wherein the amount of etherified amino resin in the resin component is greater than or equal to 50 weight %.

27. (New) An adhesive system according to claim 1, wherein the amount of etherified amino resin in the resin component is greater than or equal to 90 weight %.

28. (New) An adhesive system according to claim 1, wherein the components b)-d) are present in the following indicated amounts based on the solids of the adhesive system:

- b) from 5-60 weight %,
- c) from 2-40 weight %, and
- d) from 0.1-10 weight %.

29. (New) An adhesive system according to claim 1, wherein the etherified amino resin has a degree of etherification of 4-95%.

30. (New) An adhesive system, comprising a) an etherified amino resin, b) a vinyl acetate copolymer including post-crosslinking groups incorporated by copolymerising one or more ethylenically unsaturated monomers with at least one monomer comprising at least one post-crosslinking group, c) a curing agent comprising carboxylic acid, and d) a polyvinyl alcohol, the amount of the amino resin component being 10-90 weight % based on the solids of the adhesive system.

31. (New) An adhesive system according to claim 30, wherein the components a)-d) are present in the following indicated amounts based on the solids of the adhesive system:
-a) from 40 to 85 weight %,

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- b) from 10 to 50 weight %,
 - c) from 5 to 20 weight %, and
 - d) from 1 to 10 weight %.

32. (New) An adhesive system according to claim 30, wherein the etherified amino resin has a degree of etherification of 10 to 75 %.

33. (New) An adhesive system according to claim 1, wherein the amount of etherified amino resin in the resin component is greater than or equal to 50 weight %.

34. (New) An adhesive system according to claim 1, wherein the amount of etherified amino resin in the resin component is greater than or equal to 90 weight %.

35. (New) A hardener composition according to claim 13, wherein the components b)-d) are present in the following indicated amounts based on the solids of the hardener composition:

- b) 3-85 weight %
- c) 2 to 50 weight %
- d) 0.1 to 40 weight %.

36. (New) A hardener composition for gluing systems of the amino resin type, comprising, on a 100% solids basis, from 25 to 70 weight % of vinyl acetate copolymer containing post-crosslinking groups, from 10 to 50 weight % carboxylic acid, and from 4 to 30 weight % polyvinyl alcohol.

37. (New) A hardener composition according to claim 36, wherein the post-crosslinking groups are incorporated into the

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copolymer by copolymerising one or more ethylenically unsaturated monomers with at least one monomer comprising at least one post-crosslinking group.

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38. (New) A hardener composition according to claim 36, wherein the copolymer comprises vinyl acetate and N-metholy-l-acrylamid.

39. (New) A hardener composition according to claim 36, wherein the carboxylic acid comprises formic acid or maleic acid.

40. (New) A method of gluing two or more substrates, comprising the steps of:
(1) providing at least first and second substrates to be glued;
(2) applying an adhesive system onto a surface to be glued on least one of said substrates, said adhesive system comprising (a) a resin component comprising an etherified amino resin, (b) a polymer prepared from one or more ethylenically unsaturated monomers, (c) a curing agent, and (d) a polyvinyl alcohol, the amount of the resin component being 10-90 weight % based on the solids of the adhesive system;
(3) gluing said at least two substrates with said adhesive system.

41. (New) A method according to claim 40, wherein each of the components a)-d) are applied separately onto said at least one substrate.

42. (New) A method according to claim 40, wherein component a) is applied separately and components b)-d) are mixed before application and applied as one component e) onto said surface to be glued.

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43. (New) A method according to claim 40, wherein all of the components a)-d) are mixed together at the moment of application and applied as one component onto said surface to be glued.

44. (New) A method of application of an adhesive system according to claim 40, wherein the components a)-d) are present in the following indicated amounts and weight %, based on the solids of the adhesive system:

- a) from 40 to 85 weight %,
- b) from 10 to 50 weight %,
- c) from 5 to 20 weight %, and
- d) from one to 10 weight %.